SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE AASHTO T 27

APPARATUS

[]

B Borrow

[]	Sieves					
ĪĪ	Mechanical Sieve Shaker (optional)					
[]	Oven maintained at $230 \pm 9^{\circ}F$					
[]	Electric or gas hot plate					
PROCEDUI	RE.					
INOCEDCI						
[]	Weight of sample is as follows. (Samples larger than capacity of balance may be divided into suitable increments, tested, and the results combined. HMA aggregate samples shall be the remaining material from ITM 571 or ITM 586)					
		Minimum Weight (g)	Maximum Weight (g)			
[]	Fine Aggregates	300				
	*Coarse Aggregate					
[]	No. 2	11,300				
[]	No.5	6000	8000			
[]	No.8	6000	8000			
[]	No. 9	4000	6000			
[]	No. 11	2000				
[]	No. 12	1000				
[]	No. 43	6000	8000			
[]	No. 53	6000	8000			
[]	No. 73	6000	8000			
[]	No. 91	6000	8000			
	Structure Backfill					
[]	No. 30	300				
[]	No. 4	300				
[]	1/2 in.	4000	6000			
[]	1 in.	4000	6000			
[]	$1 \frac{1}{2}$ in.	4000	6000			
[]	2 in.	4000	6000			

4000

6000

^{*} Aggregates other than sizes listed shall have a minimum weight in accordance with the Certified Plant Quality Control Plan

AASHTO T 27

[] [] []	Sample dried to constant weight at $230 \pm 9^{\circ}$ F in oven or by hot plate Weight of sample determined to nearest 0.1% of the total original dry sample weight Sample sieved for the time determined in accordance with ITM 906. Minimum times are as follows:					
	Fine Aggregates Coarse Aggregate Size 9 or Larger Coarse Aggregate Smaller than Size 9 Structure Backfill: No. 30 and No. 4 Structure Backfill: 1/2 in., 1 in., 1 1/2 in., and 2 i Aggregate from ITM 571 or ITM 586	15 min. 5 min. 10 min. 15 min. 5 min. 10 min.				
[] [] []	If hand sieving, particles not forced to pass through opening Aggregate on each sieve weighed to 0.1% of total original dry sample weight Weight of aggregate on each sieve not greater than weight indicated in Table 1 The difference between the original dry weight and the sum of all the fractional weights retained (including the material in the pan) and the weight of material removed by decantation, if applicable, is equal to or less than 0.3 percent					
<u>Origin</u>	nal Dry Weight - Summation Weights Measured x : Original Dry Weight	$100 \le 0.3\%$				
[]	Percent passing each sieve is calculated to neares weight	st 0.1% based on original dry sample				
X - R	Not Applicable equires Corrective Action atisfactory					
Acceptance T	echnician					
D.D.O.T.						
INDOT		Date				
Comments						

TABLE 1 APPROXIMATED SIEVE OVERLOAD

SCREEN SIZE	STANDARD 372 mm x 580 mm (15" x 23")	STANDARD 350 mm x 350 mm (14" x 14")	304.8 mm (12") DIAMETER	203.2 mm (8") DIAMETER
75 mm (3")	40.5 kg	23.0 kg	12.6 kg	
50 mm (2")	27.0 kg	15.3 kg	8.4 kg	3.6 kg
37.5 mm (1-1/2")	20.2 kg	11.5 kg	6.3 kg	2.7 kg
25 mm (1")	13.5 kg	7.7 kg	4.2 kg	1.8 kg
19 mm (3/4")	10.2 kg	5.8 kg	3.2 kg	1.4 kg
12.5 mm (1/2")	6.7 kg	3.8 kg	2.1 kg	890 g
9.5 mm (3/8")	5.1 kg	2.9 kg	1.6 kg	670 g
4.75 mm (#4)	2.6 kg	1.5 kg	800 g	330 g

203.2 mm (8") diameter sieves, 2.36 mm to 75 □m (#8 to #200) shall not exceed 200g / sieve

304.8 mm (12") diameter sieves, 2.36 mm to 75 □m (#8 to #200) shall not exceed 469g / sieve